



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

PRELIMINARY DISTRIBUTION SYSTEM MATERIALS INVENTORY

Issued under authority of the Safe Drinking Act, 1976 PA 399, and Administrative Rules, as amended. Administrative Rule R 325.10604(c)(i) requires a water supply to complete and submit a preliminary distribution system materials inventory to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) by January 1, 2020.

City of Royal Oak		05830
Supply Name		WSSN
57,236	23,741	Oakland
Population Served	Number of Service Connections	County

The primary focus of the preliminary Distribution System Materials Inventory (DSMI) is to identify lead service lines, galvanized steel previously connected to lead, or service lines of unknown material. This inventory will estimate the number of high-risk service lines and describe the reliability of existing records, thereby providing important information for planning service line verification and replacement efforts. The complete DSMI, which is due in 2025, will require characterization of all service line materials (lead, galvanized, copper, and plastic). Instructions for completing this form are provided at the end of the document.

1. Does this water supply have service lines meeting the following definition?

"Service line" means the pipe from the discharge of the corporation fitting to customer site piping or to the building plumbing at the first shut-off valve inside the building, or 18 inches inside the building, whichever is shorter.

Note: For the purposes of this inventory, Manufactured Housing Community (MHC) connections to units (risers) are considered service lines, so MHCs should fill out this entire form.

☒ **YES.** If yes, complete this form in its entirety. ☐ **NO.** If no, skip to Questions 7 and 8 and the Certification.

2. Complete the table below.

Estimated Number of Service Connections by Service Line Material						
A service line includes any section of pipe from the water main to the building plumbing at the first shut-off valve inside the building, or 18 inches inside the building, whichever is shorter.						
Any Portion Contains Lead	Contains Galvanized Previously Connected to Lead*	Unknown			Contains neither Lead nor Galvanized Previously Connected to Lead	Total**
		Likely Contains Lead	Likely Does Not Contain Lead	Material(s) Unknown		
93	247	1053	16,895	---	5453	23,741

*If a galvanized line is still connected to lead, it is a lead service line and must be counted in the first column.

**The total number should equal the total number of potable water service lines in your water supply (residential, commercial, industrial, other).

3. Describe the sources of information used to summarize or estimate the data above (see instructions for a list of potential sources of information).

Estimates/actuals derived from a sample of 5,793 visually-confirmed materials, inspected during the course of normal meter maintenance activities. Quantities of the 'unknown' material types were extrapolated from the 'known' quantities of various service material types. The corresponding estimated proportions are as follows: 1.6% lead; 4.2% galvanized; 94.2% other.

Note: because available records of confirmed galvanized materials do not reliably indicate whether the service was previously connected to lead, this preliminary inventory assumes that all galvanized services were previously connected to lead

4. Describe your level of confidence in the sources of information discussed in Question 3.

☐ Very confident ☒ Somewhat confident ☐ Not very confident ☐ Not confident

Describe:

Because the sample size of confirmed materials (5,793) represents 24% of total lead service lines (23,741), staff is confident in the relative accuracy of the estimated numbers. It is expected, however, that the comprehensive inventory will reveal a small number of discrepancies in that information.

5. How common is it to find discrepancies in your service line data (for example, services you expected to be lead turned out to be copper)?

☐ Frequently ☒ Occasionally ☐ Seldom ☐ Never ☐ Not Enough Information

Describe, including any common patterns:

In some cases, when lead service lines were previously replaced as part of private reconstruction projects, updated information was not properly recorded. It is expected that some services will be incorrectly identified as lead.

6. In general, describe the composition of lead services lines identified in the column titled "Any Portion Contains Lead." For example, are services primarily full lead lines, partial lead lines (main to curb stop, curb stop to water meter), or lead goosenecks?

These services are likely composed primarily of partial lead lines - from the curb stop to the water meter. This is assumed because as part of some previous watermain replacement projects, new copper material was installed on the public portion, up to the stop box.

7. What other information can you share about your preliminary DSMI?

As a result of the city's lead action level exceedance, the city established an online portal through which homeowners can submit information about their service line materials. Because city staff did not visually inspect the materials, information from that source was not included in the 'known' count listed above. However, adjusted for errors, the owner-submitted totals largely comport with the estimated percentages provided herein.

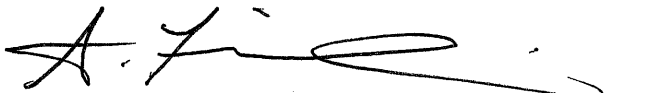
8. Beyond your service lines, do other documents previously submitted to EGLE (including the General Plan, Reliability Study, issued permits, and/or Asset Management Plan) in combination properly characterize the remainder of your current distribution system?

☒ **YES**, my general plan, reliability study, issued permits, and/or asset management plan characterize the rest of my current distribution system.

☐ **NO**. If no, please contact your district engineer to update your documentation.

Certification of Preliminary Distribution System Materials Inventory

I certify that I have reviewed available documentation related to the materials in this water supply's distribution system, and the information herein is accurate and complete to the best of my knowledge and information.



Signature

Aaron J. Filipski

Print Name

12.13.2019

Date

Public Services Director

Title

When complete, submit this signed form to your EGLE district office no later than January 1, 2020.